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## Amendments to the Claims:

What is claimed is:

Claim 1 (Currently amended): A method for measuring potential tumorigenicity of assaying mammalian cells to determine if tumor cells are present, comprising:

- a. providing a sample of medium surrounding said mammalian cells, and
- b. detecting the presence of a 120-130kD fragment of α-dystroglycan in the medium, said fragment having an Mr of 120-130kD, whereby the presence of the fragment indicates that tumor cells are present higher potential tumorigenicity.

Claim 2 (Currently amended): The method of claim 1, wherein said detecting comprises:

- a. adding to said sample a material selected from the group consisting of a monoclonal antibody to α-dystroglycan and laminin, and
- b. measuring that the size of the  $\alpha$ -dystroglycan fragment is 120-130kD detected.

Claim 3 (Currently amended): The method of claim 1, wherein said <u>mammalian</u> cells are human mammary epithelial cells.

Claim 4 (Original): The method of claim 1, wherein said medium is blood serum.

Claim 5 (Currently amended): A method for measuring potential tumorigenicity of cells, comprising:

- a. providing a sample of said cells, end
- b. detecting the presence of α-dystroglycan on the surface of said cells,

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- c. <u>providing a normal value for α-dystroglycan expression levels on cell</u> surfaces; and
- d. comparing the detection levels of  $\alpha$ -dystroglycan to said normal value, whereby the absence a decrease in levels of  $\alpha$ -dystroglycan on said cells of the sample indicates a higher potential for tumorigenicity.

Claim 6 (Currently amended): The method of claim 5, wherein said detecting comprises:

- a. adding to said sample a monoclonal antibody specific for to α-dystroglycan, and
- b. measuring the amount of labeled α-dystroglycan detected.

Claim 7 (Original): The method of claim 5, wherein said cells are human mammary epithelial cells.

Claim 8 (Currently amended): The method of claim 5, wherein the step of providing a normal value comprises measuring said detecting comprises measurement of the amount of  $\alpha$  dystroglycan relative to the amount of  $\beta$ -dystroglycan on the surface of said cells, wherein a relative decrease in the ratio of  $\alpha$ -dystroglycan to  $\beta$ -dystroglycan indicates  $\alpha$ -dystroglycan shedding and higher potential tumorigenicity.

Claims 9 - 21 (Canceled).

Claim 22 (Currently amended): A method of <u>determining the likelihood that a patient has a tumor, by assaying proteolysed α-dystroglycan fragments shed from a cell into blood in patient serum, said method comprising the steps of:</u>

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- a. contacting a serum sample to be assayed with a labeled antibody specific for an-α-dystroglycan fragment, and
- assaying the amount of bound label,

whereby wherein said α-dystroglycan fragments bound to said labeled antibody are is positively correlated with existence of a tumor cell growth in the patient.

Claim 23 (Currently amended): The method of Claim 22, wherein the α-dystroglycan fragment is an a fragment of approximately 120 kD fragment.

Claim 24 (Currently amended): The method of Claim 22, wherein the α-dystroglycan fragment is an a fragment of approximately 60 kD fragment.

Claims 25 – 28 (Canceled).

Claim 29 (Currently amended): The method of claim 22, wherein said <u>tumor</u> cell is an epithelial cell <u>tumor</u>.

Claim 30 (Currently amended): The method of claim 29, wherein said epithelial cell tumor is a breast epithelial cell tumor.